



SEQUENCE LISTING

<110> Hall, Roderick L
Poll, Christopher T.
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Taylor, William J.A.

<120> A Method for Accelerating the Rate of Mucociliary Clearance

<130> 98,736

<140> 09/218,913

<141> 1998-12-22

<160> 71

<170> Microsoft Word 97

<210> 1

<211> 179

<212> PRT

<213> Homo sapien

<400> 1

Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
100 105 110

Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
115 120 125

Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
130 135 140

Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
145 150 155 160

Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly
165 170 175

Ala Val Ser

<210> 2

<211> 197

<212> PRT

<213> Homo sapien

<220>

<221> sig_peptide

<222> 1..18

<400> 2

Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Leu Ser Gly Val
1 5 10 15
Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser
20 25 30
Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn
35 40 45
Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly
50 55 60
Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala
65 70 75 80
Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala
85 90 95
Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp
100 105 110
His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala
115 120 125
Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val
130 135 140
Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn
145 150 155 160
Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg
165 170 175
Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu
180 185 190
Ala Gly Ala Val Ser
195

<210> 3

<211> 153

<212> PRT

<213> Homo sapien

<400> 3

Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala
1 5 10 15
Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu
20 25 30
Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys
35 40 45
Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly
50 55 60

Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala
 65 70 75 80
 Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr
 85 90 95
 Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser
 100 105 110
 Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe
 115 120 125
 Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu
 130 135 140
 Ala Cys Met Leu Arg Cys Phe Arg Gln
 145 150

<210> 4
 <211> 58
 <212> PRT
 <213> Homo sapien

<400> 4
 Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala
 1 5 10 15
 Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu
 20 25 30
 Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys
 35 40 45
 Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 50 55

<210> 5
 <211> 51
 <212> PRT
 <213> Homo sapien

<400> 5
 Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg
 1 5 10 15
 Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly
 20 25 30
 Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu
 35 40 45
 Lys Lys Cys
 50

<210> 6
 <211> 58
 <212> PRT
 <213> Homo sapien

<400> 6
 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala
 1 5 10 15

Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn
 20 25 30

Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu
 35 40 45

Glu Ala Cys Met Leu Arg Cys Phe Arg Gln
 50 55

<210> 7
 <211> 51
 <212> PRT
 <213> Homo sapien

<400> 7
 Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg
 1 5 10 15

Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly
 20 25 30

Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met
 35 40 45

Leu Arg Cys
 50

<210> 8
 <211> 92
 <212> PRT
 <213> Homo sapien

<400> 8
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15

Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 20 25 30

Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 35 40 45

Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 50 55 60

Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser
 85 90

<210> 9
 <211> 708
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> 679..708
 <223> /note= "n at positions 622, 679, 707 is any nucleic acid"

<400> 9

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ggccgggtcg tttctgcct ggctgggatc gctgctctc tctggggtcc tggcgccga      60
ccgagaacgc agcatccacg acttctgcct ggtgtcgaag gtgggtggca gatgccgggc    120
ctccatgcct aggtggtggt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg    180
gggctgtgac ggaacagca ataattacct gaccaaggag gagtgcctca agaaatgtgc    240
cactgtcaca gagaatgcca cgggtgacct ggccaccagc aggaatgcag cggattcctc    300
tgtcccaagt gctcccagaa ggcaggattc tgaagaccac tccagcgata tgttcaacta    360
tgaagaatac tgcaccgcca acgcagtcac tgggccttgc cgtgcatcct tcccacgctg    420
gtactttgac gtggagagga actcctgcaa taacttcac tatggaggct gccggggcaa    480
taagaacagc taccgctctg aggaggcctg catgctccgc tgcttccgcc agcaggagaa    540
tcctcccctg ccccttggtc caaagggtgt ggttctggcc ggggctgttt cgtgatggtg    600
ttgatccttt tcctggggag cntccatggt cttactgatt ccgggtggca aggaggaacc    660
aggagcgtgc cctgcggan cgtctggagct tcggagatga caagggnt                  708

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<210> 10

<211> 235

<212> PRT

<213> Homo sapien

<220>

<221> peptide

<222> 1..235

<223> /note= "Xaa at positions 201, 226, and 233 are nonsense or stop codons"

<400> 10

```

Ala Gly Ser Phe Leu Ala Trp Leu Gly Ser Leu Leu Leu Ser Gly Val
1           5           10           15

```

```

Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser
          20           25           30

```

```

Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn
          35           40           45

```

```

Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly
          50           55           60

```

```

Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala
65           70           75           80

```

```

Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala
          85           90           95

```

```

Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp
          100          105          110

```

```

His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala
          115          120          125

```

```

Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val
          130          135          140

```

```

Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn

```


Ala Val Ser

<210> 12
<211> 393
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> 390..391
<223> /note= "residue 361 is any nucleic acid"

<220>
<221> misc_feature
<222> 390..391
<223> /note= "residue 367 is any nucleic acid"

<220>
<221> misc_feature
<222> 384..385
<223> /note= "residue 384 is any nucleic acid"

<220>
<221> misc_feature
<222> 367..368
<223> /note= "residue 390 is any nucleic acid"

<400> 12
ggccgggtcg tttctcgctt ggctgggatc gctgctctc tctgggggtcc tggccggccg 60
accgagaacg cagcatccac gacttctgcc tgggtgtcgaa ggtggtgggc agattccggg 120
cctccatgcc taggtggtgg tacaatgtca ctgacggatc ctgccagctg tttgtgtatg 180
ggggctgtga cggaacacg aataattacc tgaccaagga ggagtgcctc aagaaatgtg 240
ccactgtcac agagaatgcc acgggtgacc tggccaccag caggaatgca gcggattcct 300
ctgtcccaag tgctcccaga aggcaggatt cttgaagacc acttcagcga tatgtttcaa 360
ntattgnaag aataattgca ccgnaacgn att 393

<210> 13
<211> 130
<212> PRT
<213> Homo sapien

<220>
<221> Region
<222> 1..18
<223> /label= signal peptide

<220>
<221> Peptide
<222> 111..130
<223> /note= "Xaa at positions 111, 120, 122, 128, and 130 represents a nonsense or stop codon"

<400> 13
Pro Gly Arg Phe Ser Pro Gly Trp Asp Arg Cys Ser Ser Leu Gly Ser
1 5 10 15

Trp Pro Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser

	20		25		30
Lys Val Val Gly Arg Glu Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn					
	35		40		45
Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly					
	50		55		60
Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala					
	65		70		75
Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala					
		85		90	95
Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Xaa Arg					
	100		105		110
Pro Leu Gln Arg Tyr Val Ser Xaa Ile Xaa Arg Ile Ile Ala Pro Xaa					
	115		120		125

Thr Xaa
130

<210> 14
<211> 511
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> 425..510
<223> /note= "n at positions 425, 482, and 510 is any nucleic acid"

<400> 14	
gcaataatta cctgaccaag gaggagtgcc tcaagaaatg tgccactgtc acagagaatg	60
ccacgggtga cctggccacc agcaggaatg cagcggattc ctctgtccca agtgctccca	120
gaaggcagga ttctgaagac cactccagcg atatgttcaa ctatgaagaa tactgcaccg	180
ccaacgcagt cactgggcct tgccgtgcat ccttcccacg ctggtacttt gacgtggaga	240
ggaactcctg caataacttc atctatggag gctgccgggg caataagaac agctaccgct	300
ctgaggaggc ctgcatgctc cgctgcttcc gccagcagga gaatcctccc ctgccccttg	360
gctcaaagggt ggtggttctg gccggggctg tttcgtgatg gtgttgatcc ttttcctggg	420
gagcntccat ggtcttactg attccgggtg gcaaggagga accaggagcg tgccctgcgg	480
ancgtctgga gcttcggaga tgacaagggn t	511

<210> 15
<211> 169
<212> PRT
<213> Homo sapien

<220>
<221> peptide
<222> 1..169
<223> /note= "Xaa at positions 2, 23, 132, 160, and 167 represent a nonsense or stop codon"

<400> 15
 Gln Xaa Leu Pro Asp Gln Gly Gly Val Pro Gln Glu Met Cys His Cys
 1 5 10 15
 His Arg Glu Cys His Gly Xaa Pro Gly His Gln Gln Glu Cys Ser Gly
 20 25 30
 Phe Leu Cys Pro Lys Ser Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 35 40 45
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 50 55 60
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
 65 70 75 80
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
 85 90 95
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
 100 105 110
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly
 115 120 125
 Ala Val Ser Xaa Trp Cys Xaa Ser Phe Ser Trp Gly Ala Ser Met Val
 130 135 140
 Leu Leu Ile Pro Gly Gly Lys Glu Glu Pro Gly Ala Cys Pro Ala Xaa
 145 150 155 160
 Arg Leu Glu Leu Arg Arg Xaa Gln Gly
 165

<210> 16
 <211> 431
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc feature
 <222> 1..430
 <223> /note= "n at positions 3, 11, 12, 17, 51 and 429 represent any nucleic acid"

<400> 16
 gcngcgcgtt nntcgcntgc tgggatcgct gctgcacctc tctggggctg nggcggccga 60
 ccgagaacgc agcatccacg acttctgcct ggtgtcgaag gtggtgggca gatgccgggc 120
 ctccatgcct aggtgggtgt acaatgtcac tgacggatcc tgccagctgt ttgtgtatgg 180
 gggctgtgac ggaaacagca ataattacct gaccaaggag gagtgcctca agaaatgtgc 240
 cactgtcaca gagaatgccca cgggtgacct ggccaccagc aggaatgcag cggattcctc 300
 tgtcccaagt gctcccagaa ggcaggattc ttgaagacca cttcagcgat atgttcaact 360
 atgaagaata ctggcaccgc caacgcattc actgggcctg cgtgcatcct tcccacgctg 420
 gtactttgnc g 431

<210> 17

```

<211> 424
<212> DNA
<213> Homo sapien

<220>
<221> misc feature
<222> 1..424
<223> /note= "n at positions 6, 310 and 408 represent any nucleic acid"

<400> 17
tgggantcgc tgctcctctc tggggtcctg gcggccgacc gagaacgcag catccacgac      60
ttctgcctgg tgtcgaaggt ggtgggcaga tgccgggcct ccatgcctag gtggtggtac      120
aatgtcactg acggatcctg ccagctgttt gtgtatgggg gctgtgacgg aaacagcaat      180
aattacctga ccaaggagga gtgcctcaag aaatgtgcca ctgtcacaga gaatgccacg      240
ggtgacctgg ccaccagcag gaatgcagcg gattcctctg tcccaagtgc tcccagaagg      300
caggattctn gaagaccact ccagcgatat gttcaactat gaagaatact gcaccgccaa      360
cgcagtcact gggccttgcg tggaatcctt tcccacgctg gnaatttnga cgttgagaag      420
gaac                                                                424

<210> 18
<211> 57
<212> PRT
<213> Unknown

<220>
<221>
<222>
<223> /note= "Tissue factor pathway inhibitor precursor 1"

<400> 18
His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly Pro Cys Lys Ala Ile
1          5          10          15
Met Lys Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu Phe
          20          25          30
Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn Arg Phe Glu Ser Leu Glu
          35          40          45
Glu Cys Lys Lys Met Cys Thr Arg Asp
          50          55

<210> 19
<211> 57
<212> PRT
<213> Unknown

<220>
<223> /note= "Tissue factor pathway inhibitor precursor 1"

<400> 19
Pro Asp Phe Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr
1          5          10          15
Ile Thr Arg Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe
          20          25          30

```

Lys Tyr Gly Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu
 35 40 45

Glu Cys Lys Asn Ile Cys Glu Asp Gly
 50 55

<210> 20
 <211> 57
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Tissue factor pathway inhibitor precursor"

<400> 20
 Pro Ser Trp Cys Leu Thr Pro Ala Asp Arg Gly Leu Cys Arg Ala Asn
 1 5 10 15

Glu Asn Arg Phe Tyr Tyr Asn Ser Val Ile Gly Lys Cys Arg Pro Phe
 20 25 30

Lys Tyr Ser Gly Cys Gly Gly Asn Glu Asn Asn Phe Thr Ser Lys Gln
 35 40 45

Glu Cys Leu Arg Ala Cys Lys Lys Gly
 50 55

<210> 21
 <211> 57
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Tissue factor pathway inhibitor precursor 2"

<400> 21
 Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu
 1 5 10 15

Leu Leu Arg Tyr Tyr Tyr Arg Tyr Arg Thr Gln Ser Cys Arg Gln Phe
 20 25 30

Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu
 35 40 45

Ala Cys Asp Asp Ala Cys Trp Arg Ile
 50 55

<210> 22
 <211> 57
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Tissue factor pathway inhibitor precursor 2"

<400> 22
 Pro Ser Phe Cys Tyr Ser Pro Lys Asp Glu Gly Leu Cys Ser Ala Asn
 1 5 10 15

Val Thr Arg Tyr Tyr Phe Asn Pro Arg Tyr Arg Thr Cys Asp Ala Phe
 20 25 30

Thr Tyr Thr Gly Cys Gly Asn Asn Asp Asn Asn Phe Val Ser Arg Glu
 35 40 45

Asp Ser Lys Arg Ala Cys Ala Lys Ala
 50 55

<210> 23
 <211> 57
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Amyloid Precursor Protein homologue"

<400> 23
 Lys Ala Val Cys Ser Gln Glu Ala Met Thr Gly Pro Cys Arg Ala Val
 1 5 10 15

Met Pro Arg Thr Thr Phe Asp Leu Ser Lys Gly Lys Cys Val Arg Phe
 20 25 30

Ile Thr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Glu Ser Glu Asp
 35 40 45

Tyr Cys Met Ala Val Cys Lys Ala Met
 50 55

<210> 24
 <211> 58
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Aprotinin"

<400> 24
 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
 1 5 10 15

Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
 20 25 30

Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
 35 40 45

Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
 50 55

<210> 25
 <211> 51
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Inter alpha-trypsin inhibitor precursor"

<400> 25
 Cys Gln Leu Gly Tyr Ser Ala Gly Pro Cys Met Gly Met Thr Ser Arg
 1 5 10 15

Tyr Phe Tyr Asn Gly Thr Ser Met Ala Cys Glu Thr Phe Gln Tyr Gly
 20 25 30

Gly Cys Met Gly Asn Gly Asn Asn Phe Val Thr Glu Lys Glu Cys Leu
 35 40 45

Gln Thr Cys
 50

<210> 26
 <211> 57
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Inter alpha-trypsin inhibitor precursor"

<400> 26
 Val Ala Ala Cys Asn Leu Pro Ile Val Arg Gly Pro Cys Arg Ala Phe
 1 5 10 15

Ile Gln Leu Trp Ala Phe Asp Ala Val Lys Gly Lys Cys Val Leu Phe
 20 25 30

Pro Tyr Gly Gly Cys Gln Gly Asn Gly Asn Lys Phe Tyr Ser Glu Lys
 35 40 45

Glu Cys Arg Glu Tyr Cys Gly Val Pro
 50 55

<210> 27
 <211> 57
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Amyloid precursor protein"

<400> 27
 Glu Val Cys Cys Ser Glu Gln Ala Glu Thr Gly Pro Cys Arg Ala Met
 1 5 10 15

Ile Ser Arg Trp Tyr Phe Asp Val Thr Glu Gly Lys Cys Ala Pro Phe
 20 25 30

Phe Tyr Gly Gly Cys Gly Gly Asn Arg Asn Asn Phe Asp Thr Glu Glu
 35 40 45

Tyr Cys Met Ala Val Cys Gly Ser Ala
 50 55

<210> 28
 <211> 51
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "Collagen alpha-3 (VI) precursor"

<400> 28
 Cys Lys Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe Ile Leu Lys
 1 5 10 15

Trp Tyr Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly
 20 25 30

Gly Cys Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu
 35 40 45

Lys Val Cys
 50

<210> 29
 <211> 57
 <212> PRT
 <213> Unknown

<220>
 <223> /note= "HKI-B9"

<400> 29
 Pro Asn Val Cys Ala Phe Pro Met Glu Lys Gly Pro Cys Gln Thr Tyr
 1 5 10 15

Met Thr Arg Trp Phe Phe Asn Phe Glu Thr Gly Glu Cys Glu Leu Phe
 20 25 30

Ala Tyr Gly Gly Cys Gly Gly Asn Ser Asn Asn Phe Leu Arg Lys Glu
 35 40 45

Lys Cys Glu Lys Phe Cys Lys Phe Thr
 50 55

<210> 30
 <211> 46
 <212> DNA
 <213> S. cerevisiae

<400> 30
 gccaaagcttg gataaaagat atgaagaata ctgcaccgcc aacgca 46

<210> 31
 <211> 35
 <212> DNA
 <213> S. cerevisiae

<400> 31
 ggggatcctc actgctggcg gaagcagcgg agcat 35

<210> 32
 <211> 206
 <212> DNA
 <213> Homo sapien

<220>
 <223> /note= "cDNA of human Bikunin protein fragment"

<400> 32
 ccaagcttgg ataaaagata tgaagaatac tgcaccgcc aacgagtcac tgggccttgc 60
 cgtgcatcct tcccacgctg gtactttgac gtggagagga actcctgcaa taacttcac 120
 tatggaggct gccggggcaa taagaacagc taccgctctg aggaggcctg catgctccgc 180
 tgcttccgcc agcagtgagg atcccc 206

<210> 33
 <211> 28

<212> DNA
 <213> Homo sapien

 <400> 33
 cgaagcttca tctccgaagc tccagacg 28

 <210> 34
 <211> 31
 <212> DNA
 <213> Homo sapien

 <400> 34
 aggatctaga caataattac ctgaccaagg a 31

 <210> 35
 <211> 36
 <212> DNA
 <213> Homo sapien

 <400> 35
 ggtctagagg ccgggtcgtt tctcgcttg ctggga 36

 <210> 36
 <211> 19
 <212> DNA
 <213> Homo sapien

 <400> 36
 cacctgatcg cgagacccc 19

 <210> 37
 <211> 19
 <212> DNA
 <213> Homo sapien

 <400> 37
 gatttaggtg acactatag 19

 <210> 38
 <211> 20
 <212> DNA
 <213> Homo sapien

 <400> 38
 taatacgact cactataggg 20

 <210> 39
 <211> 22
 <212> DNA
 <213> Homo sapien

 <400> 39
 ttacctgacc aaggaggagt gc 22

 <210> 40
 <211> 23
 <212> DNA
 <213> Homo sapien

 <400> 40
 aatccgctgc attcctgctg gtg 23

 <210> 41

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<211> 20
<212> DNA
<213> Homo sapien

<400> 41
cagtcactgg gccttgccgt                20

<210> 42
<211> 105
<212> DNA
<213> Homo sapien

<400> 42
gaaggggtaa gcttggataa aagatatgaa gaatactgca ccgccaacgc agtcactggg    60
ccttgccgtg catccttccc acgctggtac tttgacgtgg agagg                    105

<210> 43
<211> 129
<212> DNA
<213> Homo sapien

<400> 43
cgcggatccc tactggcgga agcagcggag catgcaggcc tcctcagagc ggtagctggt    60
cttattgccc cggcagcctc catagatgaa gttattgcag gagttcctct ccacgtcaaa    120
gtaccagcg                                     129

<210> 44
<211> 207
<212> DNA
<213> Homo sapien

<400> 44
gaaggggtaa gcttggataa aagatatgaa gaatactgca ccgccaacgc agtcactggg    60
ccttgccgtg catccttccc acgctggtac tttgacgtgg agaggaaactc ctgcaataac    120
ttcatctatg gaggtgccg gggcaataag aacagctacc gctctgagga ggctgcatg      180
ctccgctgct tccgccagta gggatcc                207

<210> 45
<211> 248
<212> PRT
<213> Homo sapien

<220>
<221> Region
<222> 1..18
<223> /label= signal peptide

<400> 45
Met Leu Arg Ala Glu Ala Asp Gly Val Ser Arg Leu Leu Gly Ser Leu
1          5          10          15

Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg Ser Ile His Asp
20          25          30

Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro
35          40          45

```


Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr
 50 55 60
 Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys
 65 70 75 80
 Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala
 85 90 95
 Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg
 100 105 110
 Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr
 115 120 125
 Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg
 130 135 140
 Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly
 145 150 155 160
 Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met
 165 170 175
 Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu Pro Leu Gly Ser
 180 185 190
 Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe
 195 200 205
 Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln
 210 215 220
 Glu Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln
 225 230 235 240
 Leu Val Lys Asn Thr Tyr Val Leu
 245

<210> 46
 <211> 213
 <212> PRT
 <213> Homo sapien

<400> 46
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 20 25 30
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 35 40 45
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 50 55 60
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 65 70 75 80
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 85 90 95

Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 100 105 110
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
 115 120 125
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
 130 135 140
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
 145 150 155 160
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly
 165 170 175
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr
 180 185 190
 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val
 195 200 205
 Trp Ser Phe Gly Asp
 210
 <210> 47
 <211> 240
 <212> PRT
 <213> Homo sapien
 <220>
 <221> Region
 <222> 1..18
 <223> /label= signal peptide
 <400> 47
 Met Ala Gln Leu Cys Gly Leu Arg Arg Ser Arg Ala Phe Leu Ala Leu
 1 5 10 15
 Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg
 20 25 30
 Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg
 35 40 45
 Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln
 50 55 60
 Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr
 65 70 75 80
 Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr
 85 90 95
 Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser
 100 105 110
 Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn
 115 120 125
 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala
 130 135 140
 Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn

145 150 155 160
 Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu
 165 170 175
 Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu
 180 185 190
 Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val
 195 200 205
 Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala
 210 215 220
 Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val Trp Ser Phe Gly Asp
 225 230 235 240

 <210> 48
 <211> 225
 <212> PRT
 <213> Homo sapiens

 <400> 48
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 20 25 30
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 35 40 45
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 50 55 60
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 65 70 75 80
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 85 90 95
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 100 105 110
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
 115 120 125
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
 130 135 140
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
 145 150 155 160
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly
 165 170 175
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr
 180 185 190
 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val
 195 200 205
 Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val

210 215 220
 Leu
 225

 <210> 49
 <211> 252
 <212> PRT
 <213> Homo sapien

 <220>
 <221> Region
 <222> 1..18
 <223> /label= signal peptide

 <400> 49
 Met Ala Gln Leu Cys Gly Leu Arg Arg Ser Arg Ala Phe Leu Ala Leu
 1 5 10 15

 Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala Ala Asp Arg Glu Arg
 20 25 30

 Ser Ile His Asp Phe Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg
 35 40 45

 Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln
 50 55 60

 Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr
 65 70 75 80

 Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr
 85 90 95

 Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser
 100 105 110

 Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn
 115 120 125

 Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala
 130 135 140

 Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn
 145 150 155 160

 Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu
 165 170 175

 Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Leu
 180 185 190

 Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly Leu Phe Val Met Val
 195 200 205

 Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala
 210 215 220

 Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp
 225 230 235 240

 Asp Lys Glu Gln Leu Val Lys Asn Thr Tyr Val Leu
 245 250

<210> 50
 <211> 146
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 50
 Cys Leu Val Ser Lys Val Val Gly Arg Cys Arg Ala Ser Met Pro Arg
 1 5 10 15
 Trp Trp Tyr Asn Val Thr Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly
 20 25 30
 Gly Cys Asp Gly Asn Ser Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu
 35 40 45
 Lys Lys Cys Ala Thr Val Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr
 50 55 60
 Ser Arg Asn Ala Ala Asp Ser Ser Val Pro Ser Ala Pro Arg Arg Gln
 65 70 75 80
 Asp Ser Glu Asp His Ser Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys
 85 90 95
 Thr Ala Asn Ala Val Thr Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp
 100 105 110
 Tyr Phe Asp Val Glu Arg Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly
 115 120 125
 Cys Arg Gly Asn Lys Asn Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu
 130 135 140
 Arg Cys
 145

<210> 51
 <211> 170
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 51
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 20 25 30
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 35 40 45
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 50 55 60
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 65 70 75 80

Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 85 90 95
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 100 105 110
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
 115 120 125
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
 130 135 140
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
 145 150 155 160
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys
 165 170

<210> 52
 <211> 170
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 52
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 20 25 30
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 35 40 45
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 50 55 60
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 65 70 75 80
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 85 90 95
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 100 105 110
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
 115 120 125
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
 130 135 140
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
 145 150 155 160
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys
 165 170

<210> 53
 <211> 27

<212> PRT
 <213> Homo sapien

 <220>
 <223> /note= "Signal peptide of Human Bikunin protein"

 <400> 53
 Met Ala Gln Leu Cys Gly Leu Arg Arg Ser Arg Ala Phe Leu Ala Leu
 1 5 10 15

 Leu Gly Ser Leu Leu Leu Ser Gly Val Leu Ala
 20 25

 <210> 54
 <211> 23
 <212> PRT
 <213> Homo sapien

 <220>
 <223> Human Bikunin protein fragment

 <400> 54
 Met Leu Arg Ala Glu Ala Asp Gly Asn Ser Arg Leu Leu Gly Ser Leu
 1 5 10 15

 Leu Leu Ser Gly Val Leu Ala
 20

 <210> 55
 <211> 102
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> /note= "Oligomer for preparing expression construct"

 <400> 55
 gaaggggtaa gcttggataa aagagaagaa tactgtactg ctaatgctgt tactggtcca 60
 tgtagagctt cttttccaag atggtacttt gatgttgaaa ga 102

 <210> 56
 <211> 129
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Oligomer for preparing expression construct

 <400> 56
 actggatcct cattggcgaa aacatctcaa catacaggct tcttcagatc tgtaagaatt 60
 tttattacct ctacaaccac cgtaaataaa attattacaa gaatttcttt caacatcaaa 120
 gtaccatct 129

 <210> 57
 <211> 108
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> /note= "Oligomer for preparing expression construct"

<400> 57
 gaaggggtaa gcttggataa aagaaattac gaagaatact gtactgctaa tgctgttact 60
 ggtccatgta gagcttcttt tccaagatgg tactttgatg ttgaaaga 108
 <210> 58
 <211> 117
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> /note= "Oligomer for preparing expression construct"
 <400> 58
 gaaggggtaa gcttggataa aagagatatg tttaattacg aagaatactg tactgctaata 60
 gctgttactg gtccatgtag agcttctttt ccaagatggt actttgatgt tgaaaga 117
 <210> 59
 <211> 20
 <212> DNA
 <213> Homo sapiens
 <400> 59
 cacctgatcg cgaagacccc 20
 <210> 60
 <211> 23
 <212> DNA
 <213> Homo sapiens
 <400> 60
 ctggcggaag cagcggagca tgc 23
 <210> 61
 <211> 45
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> /note= "Oligomer for preparing Bikunin expression construct"
 <400> 61
 cgcgtctcgg ctgacctggc cctgcagatg gcgcacgtgt gcggg 45
 <210> 62
 <211> 60
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> /note= "Oligomer for preparing Bikunin construct"
 <400> 62
 ctgccccttg gctcaaagta ggaagatctt cccccgggg ggggtggttct ggcggggctg 60
 <210> 63
 <211> 14
 <212> PRT
 <213> Homo sapien
 <220>
 <223> /note= "Human Bikunin protein fragment"

<400> 63
 Leu Arg Cys Phe Arg Gln Gln Glu Asn Pro Pro Pro Leu Gly
 1 5 10

<210> 64
 <211> 20
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 64
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15

Val Gly Arg Cys
 20

<210> 65
 <211> 20
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 65
 Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr Gly Pro Cys
 1 5 10 15

Arg Ala Ser Phe
 20

<210> 66
 <211> 10
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 66
 Pro Tyr Val Asp Gly Ser Gln Phe Tyr Gly
 1 5 10

<210> 67
 <211> 55
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 67
 Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu
 1 5 10 15

Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu
 20 25 30

Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu

35 40 45
 Val Lys Asn Thr Tyr Val Leu
 50 55
 <210> 68
 <211> 43
 <212> PRT
 <213> Homo sapien
 <220>
 <223> /note= "Human Bikunin protein fragment"
 <400> 68
 Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu
 1 5 10 15
 Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu
 20 25 30
 Arg Ala Leu Arg Thr Val Trp Ser Phe Gly Asp
 35 40
 <210> 69
 <211> 55
 <212> PRT
 <213> Homo sapien
 <220>
 <223> /note= "Human Bikunin protein fragment"
 <400> 69
 Val Val Val Leu Ala Gly Leu Phe Val Met Val Leu Ile Leu Phe Leu
 1 5 10 15
 Gly Ala Ser Met Val Tyr Leu Ile Arg Val Ala Arg Arg Asn Gln Glu
 20 25 30
 Arg Ala Leu Arg Thr Val Trp Ser Ser Gly Asp Asp Lys Glu Gln Leu
 35 40 45
 Val Lys Asn Thr Tyr Val Leu
 50 55
 <210> 70
 <211> 213
 <212> PRT
 <213> Homo sapien
 <220>
 <223> /note= "Human Bikunin protein fragment"
 <400> 70
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 20 25 30
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 35 40 45
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val

50 55 60
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 65 70 75 80
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 85 90 95
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 100 105 110
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg
 115 120 125
 Asn Ser Cys Asn Asn Phe Ile Tyr Gly Gly Cys Arg Gly Asn Lys Asn
 130 135 140
 Ser Tyr Arg Ser Glu Glu Ala Cys Met Leu Arg Cys Phe Arg Gln Gln
 145 150 155 160
 Glu Asn Pro Pro Leu Pro Leu Gly Ser Lys Val Val Val Leu Ala Gly
 165 170 175
 Leu Phe Val Met Val Leu Ile Leu Phe Leu Gly Ala Ser Met Val Tyr
 180 185 190
 Leu Ile Arg Val Ala Arg Arg Asn Gln Glu Arg Ala Leu Arg Thr Val
 195 200 205
 Trp Ser Phe Gly Asp
 210

<210> 71
 <211> 225
 <212> PRT
 <213> Homo sapien

<220>
 <223> /note= "Human Bikunin protein fragment"

<400> 71
 Ala Asp Arg Glu Arg Ser Ile His Asp Phe Cys Leu Val Ser Lys Val
 1 5 10 15
 Val Gly Arg Cys Arg Ala Ser Met Pro Arg Trp Trp Tyr Asn Val Thr
 20 25 30
 Asp Gly Ser Cys Gln Leu Phe Val Tyr Gly Gly Cys Asp Gly Asn Ser
 35 40 45
 Asn Asn Tyr Leu Thr Lys Glu Glu Cys Leu Lys Lys Cys Ala Thr Val
 50 55 60
 Thr Glu Asn Ala Thr Gly Asp Leu Ala Thr Ser Arg Asn Ala Ala Asp
 65 70 75 80
 Ser Ser Val Pro Ser Ala Pro Arg Arg Gln Asp Ser Glu Asp His Ser
 85 90 95
 Ser Asp Met Phe Asn Tyr Glu Glu Tyr Cys Thr Ala Asn Ala Val Thr
 100 105 110
 Gly Pro Cys Arg Ala Ser Phe Pro Arg Trp Tyr Phe Asp Val Glu Arg

115					120					125					
Asn	Ser	Cys	Asn	Asn	Phe	Ile	Tyr	Gly	Gly	Cys	Arg	Gly	Asn	Lys	Asn
130						135					140				
Ser	Tyr	Arg	Ser	Glu	Glu	Ala	Cys	Met	Leu	Arg	Cys	Phe	Arg	Gln	Gln
145				150						155				160	
Glu	Asn	Pro	Pro	Leu	Pro	Leu	Gly	Ser	Lys	Val	Val	Val	Leu	Ala	Gly
				165					170					175	
Leu	Phe	Val	Met	Val	Leu	Ile	Leu	Phe	Leu	Gly	Ala	Ser	Met	Val	Tyr
			180					185					190		
Leu	Ile	Arg	Val	Ala	Arg	Arg	Asn	Gln	Glu	Arg	Ala	Leu	Arg	Thr	Val
		195					200					205			
Trp	Ser	Ser	Gly	Asp	Asp	Lys	Glu	Gln	Leu	Val	Lys	Asn	Thr	Tyr	Val
210						215					220				
Leu															
225															